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PTO/SB/21 (09-04)

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/700,297
Filing Date	October 31, 2003
First Named Inventor	Hutchens, T. William
Art Unit	1743
Examiner Name	To Be Assigned
Attorney Docket Number	016866-001514US
Total Number of Pages in This Submission	6

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Reference (1); Return Postcard
<b>Remarks</b> The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Eugenia Garrett-Wackowski		
Date	December 17, 2004	Reg. No.	37,330

## CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Jose Luna	Date	December 17, 2004

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PATENT  
Attorney Docket No.: 016866-001514US  
Client Reference No.: D-5639-PCT-US-  
D2

On December 17, 2004

TOWNSEND and TOWNSEND and CREW LLP

By: *Joseph*



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

T. William Hutchens et al.

Application No.: 10/700,297

Filed: October 31, 2003

For: METHOD AND APPARATUS FOR  
DESORPTION AND IONIZATION OF  
ANALYTES

Examiner: To Be Assigned

Art Unit: 1743

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

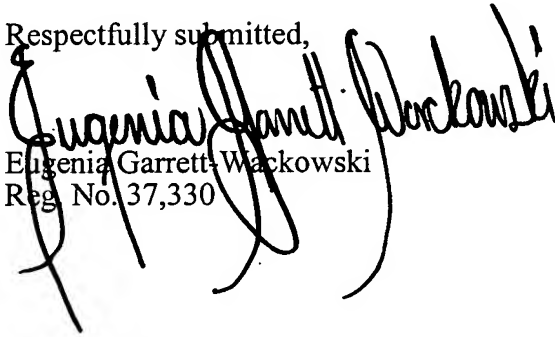
Sir:

The references cited on the attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. A copy of reference number 25 is submitted herewith. In accordance with 37 CFR §1.98(d), copies of all other references can be found in Application No. 09/848,512, filed October 12, 2001 (Attorney Docket No. 016866-001513US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Eugenia Garrett-Wackowski  
Reg. No. 37,330

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/700,297
Filing Date	October 31, 2003
First Named Inventor	Hutchens, T. William
Art Unit	1743
Examiner Name	To Be Assigned
Attorney Docket Number	016866-001514US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1.	3,896,661		07-29-1975	Parkhurst et al.	
	2.	4,022,876		05-10-1977	Anbar	
	3.	4,295,046		10-13-1981	Gruter et al.	
	4.	4,296,332		10-20-1981	Hill	
	5.	4,454,233		06-12-1984	Wang	
	6.	4,468,468		08-28-1984	Benninghoven et al.	
	7.	4,686,366		08-11-1987	Stuke	
	8.	4,694,167		09-15-1987	Payne et al.	
	9.	4,705,616		11-10-1987	Andresen et al.	
	10.	4,902,627		02-20-1990	Kidwell	
	11.	4,988,879		01-29-1991	Zare et al.	
	12.	5,003,059		03-26-1991	Brennan	
	13.	5,209,919		05-11-1993	Turteltaub et al.	
	14.	5,045,694		09-03-1991	Beavis et al.	
	15.	5,073,713		12-17-1991	Smith et al.	
	16.	5,078,135		01-07-1992	Caprioli et al.	
	17.	5,118,937		06-02-1992	Hillenkamp et al.	
	18.	5,124,267		06-23-1992	Humpel et al.	
	19.	5,171,989		12-15-1992	Williams et al.	
	20.	5,547,835		08-20-1996	Koster	
	21.	5,622,824 A		04-22-1997	Koster	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	22.	GB	2,235,528		03-06-1991	Finnigan Mat GmbH		<input type="checkbox"/>
	23.	GB	2,235,529		03-06-1991	Finnigan Mat GmbH		<input type="checkbox"/>
	24.	GB	2,236,184		03-27-1991	Finnigan Mat GmbH		<input type="checkbox"/>
	25.	GB	2,236,185	B	03-23-1994	Finnigan Mat GmbH		<input type="checkbox"/>
	26.	EP	0 084 086		07-27-1983	Leybold Heraeus GmbH		<input type="checkbox"/>
	27.	EP	0 333 912		09-27-1989	Bruker-Franzen Analyt.		<input type="checkbox"/>
	28.	WO	91/02961		03-07-1991	Finnigan Mat Ltd.		<input type="checkbox"/>
	29.	WO	92/13629		08-20-1992	Wayne State University		<input type="checkbox"/>
	30.	WO	96/37777		11-28-1996	Nelson et al.		<input type="checkbox"/>
	31.	WO	96/40888		12-19-1996	Arizona Board Regents		<input type="checkbox"/>

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/700,297
				Filing Date	October 31, 2003
				First Named Inventor	Hutchens, T. William
				Art Unit	1743
				Examiner Name	To Be Assigned
Sheet	2	of	3	Attorney Docket Number	016866-001514US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	32.	AMERICAN BIOTECHNOLOGY LABORATORY, February 1994 cover, cover-page 2 (1994)	
	33.	BEAVIS, R. et al., "Epitaxial protein inclusion in sinapic acid crystals" J. Phys. D: Appl. Phys.26:442-447 (1993)	
	34.	DWYER, J. et al., "A novel sample preparation device for MALDI-MS" Int'l Lab. 13A-13F (1997)	
	35.	HILLENKAMP, F., "Laser desorption mass spectrometry: Mechanisms techniques and applications" Bordeaux Mass Spect. Conference Report 11A:354-362 (1988)	
	36.	HUTCHENS, T. et al., "Differences in the conformational state of a zinc-finger DNA-binding protein domain occupied by zinc and copper revealed by electrospray ionization mass spectrometry" Rapid Comm. in Mass Spect. 6:469-473 (1992)	
	37.	HUTCHENS, T. et al., "New desorption strategies for the mass spectrometric analysis of macromolecules" Rapid Comm. in Mass Spect. 7:576-580 (1993)	
	38.	KARAS, M. et al., "Laser desorption ionization of proteins with molecular masses exceeding 10,000 daltons" Anal. Chem. 60:2299-2301 (1988)	
	39.	KARAS, M. et al., "Ultraviolet laser desorption of proteins up to 120,000 daltons" Bordeaux Mass Spect. Conference Report 11A:416-417 (1988)	
	40.	KARAS, M. et al., "UV laser desorption/ionization mass spectrometry of femtomol amounts of large proteins" Biomed. Environ. Mass Spectr. 18:841-843 (1989)	
	41.	MOCK, K. et al., "Sample Immobilization protocols for matrix-assisted laser desorption mass spectrometry" Rapid Comm. in Mass Spec. 6:233-238 (1994)	
	42.	NELSON et al., "Mass spec. analysis of a trans-metal-binding peptide using MALDToFMS: A demonstration of probe tip chemistry" Rapid Comm. Mass Spec. 6:4-8 (1992)	
	43.	NELSON et al., "Mass spectrometric immunoassay" Anal. Chem. 67:1153-58 (1995)	
	44.	RIVERA, A., "A summary statement: Probes for affinity mass spectrometry of phosphoproteins" April 16, 1994	
	45.	SPEIR, J. et al., "Substrater-assisted laser desorption of neutral peptide molecules" Anal. Chem. 64:1041-1045 (1992)	
	46.	STRUPAT, K. et al., "2,5-Dihydroxybenzoic acid: A new matrix for laser desorption-ionization mass spectrometry" Int'l J. Mass Spectr. and Ion Proc. 111:89-102 (1991)	
	47.	XIANG, F. et al., "A method to increase contaminant tolerance in protein matrix-assisted laser desorption/ionization by the fabrication of thin protein-doped polycrystalline films" Rapid Comm. in Mass Spec. 8:199-204 (1994)	

Examiner Signature		Date Considered	
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
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Sheet	3	of	3	Attorney Docket Number	016866-001514US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	48.	YIP, T. et al., Protein Expression and Purification 2:355-362 (1991)	

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